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Relevance scale **1 Spatial interpretation of domain objects integrated into a freeform electronic****whiteboard**

 Thomas P. Moran, William van Melle, Patrick Chiu
 November 1998 **Proceedings of the 11th annual ACM symposium on User interface software and technology**

Publisher: ACM PressFull text available:  [pdf\(130.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: customization, freeform interaction, gestural interfaces user interface design, implicit structure, informal systems, list structures, metting support tools, pen-based systems, recognition-based systems, tailorability, witeboard metaphor

2 Papers: Off the wall: Focus plus context screens: combining display technology with**visualization techniques** Patrick Baudisch, Nathaniel Good, Paul StewartNovember 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology****Publisher:** ACM PressFull text available:  [pdf\(1.39 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computer users working with large visual documents, such as large layouts, blueprints, or maps perform tasks that require them to simultaneously access overview information while working on details. To avoid the need for zooming, users currently have to choose between using a sufficiently large screen or applying appropriate visualization techniques. Currently available hi-res "wall-size" screens, however, are cost-intensive, space-intensive, or both. Visualization techniques allow the user to m ...

Keywords: Display, fisheye view, focus plus context screen, mixed resolution, overview plus detail, video projector

3 Finding text in images

Victor Wu, R. Manmatha, Edward M. Riseman

July 1997 **Proceedings of the second ACM international conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf(1.63 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: background removal, binarization, character recognition, connected-components analysis, filters, hierarchical processing, multimedia indexing, text detection, text reading system, texture segmentation

4 The Task Gallery: a 3D window manager

George Robertson, Maarten van Dantzig, Daniel Robbins, Mary Czerwinski, Ken Hinckley, Kirsten Risdan, David Thiel, Vadim Gorokhovsky

April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available:  pdf(1.19 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Task Gallery is a window manager that uses interactive 3D graphics to provide direct support for task management and document comparison, lacking from many systems implementing the desktop metaphor. User tasks appear as artwork hung on the walls of a virtual art gallery, with the selected task on a stage. Multiple documents can be selected and displayed side-by-side using 3D space to provide uniform and intuitive scaling. The Task Gallery hosts any Windows application, using a novel *re* ...

Keywords: 3D user interfaces, spatial cognition, spatial memory, window managers

5 Document image understanding

Sargur N. Srihari

November 1986 **Proceedings of 1986 ACM Fall joint computer conference**

Publisher: IEEE Computer Society Press

Full text available:  pdf(1.38 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 New directions/applications: Integrated text and image understanding for document understanding

Suzanne Liebowitz Taylor, Deborah A. Dahl, Mark Lipshutz, Carl Weir, Lewis M. Norton, Roslyn Nilson, Marcia Linebarger

March 1994 **Proceedings of the workshop on Human Language Technology HLT '94**

Publisher: Association for Computational Linguistics

Full text available:  pdf(680.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Because of the complexity of documents and the variety of applications which must be supported, document understanding requires the integration of image understanding with text understanding. Our document understanding technology is implemented in a system called IDUS (Intelligent Document Understanding System), which creates the data for a text retrieval application and the automatic generation of hypertext links. This paper summarizes the areas of research during IDUS development where we have ...

7 Customizing information capture and access

Daniela Rus, Devika Subramanian

January 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 1



Publisher: ACM Press

Full text available: [pdf\(1.26 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels of granularity to build high-level indices with task-specific interpretations. Information agents construct such indices and are configured as a network of reusable modules called structure detectors and segmenters. We illustrate our architectu ...

Keywords: information gathering, software agents, table recognition

8 Towards second and third generation web-based multimedia



Jacco van Ossenbruggen, Joost Geurts, Frank Cornelissen, Lynda Hardman, Lloyd Rutledge
April 2001 Proceedings of the 10th international conference on World Wide Web

Publisher: ACM Press

Full text available: [pdf\(563.48 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: SMIL, XML, XSLT, multimedia, transformations

9 Multi-media RISC informatics: retrieving information with simple structural



components

Daniela Rus, Devika Subramanian

December 1993 **Proceedings of the second international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Papers: collaborating through documents: Moving markup: repositioning freeform



annotations

Gene Golovchinsky, Laurent Denoue

October 2002 **Proceedings of the 15th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: [pdf\(576.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Freeform digital ink annotation allows readers to interact with documents in an intuitive and familiar manner. Such marks are easy to manage on static documents, and provide a familiar annotation experience. In this paper, we describe an implementation of a freeform annotation system that accommodates dynamic document layout. The algorithm preserves the correct position of annotations when documents are viewed with different fonts or font sizes, with different aspect ratios, or on different devi ...

Keywords: annotation, dynamic document layout, freeform digital ink, repositioning annotations

11 Incremental updates of inverted lists for text document retrieval

 Anthony Tomasic, Héctor García-Molina, Kurt Shoens
May 1994 ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94, Volume 23 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.39 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the proliferation of the world's "information highways" a renewed interest in efficient document indexing techniques has come about. In this paper, the problem of incremental updates of inverted lists is addressed using a new dual-structure index. The index dynamically separates long and short inverted lists and optimizes retrieval, update, and storage of each type of list. To study the behavior of the index, a space of engineering trade-offs which range from optimizing upd ...



12 Automatic temporal layout mechanisms



 M. Cecelia Buchanan, Polle T. Zellweger
September 1993 Proceedings of the first ACM international conference on Multimedia

Publisher: ACM Press

Full text available:  pdf(109.15 KB)

 ps(451.70 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: automatic scheduling, automatic temporal layout, media synchronization, multimedia document formatting, temporal constraints

13 Papers: Information visualization: PhotoMesa: a zoomable image browser using quantum treemaps and bubblemaps



 Benjamin B. Bederson
November 2001 Proceedings of the 14th annual ACM symposium on User interface software and technology

Publisher: ACM Press

Full text available:  pdf(1.34 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

PhotoMesa is a zoomable image browser that uses a novel treemap algorithm to present large numbers of images grouped by directory, or other available metadata. It uses a new interaction technique for zoomable user interfaces designed for novices and family use that makes it straightforward to navigate through the space of images, and impossible to get lost. PhotoMesa groups images using one of two new algorithms that lay out groups of objects in a 2D space-filling manner. *Quantum treemaps* ...

Keywords: Animation, Graphics, Image Browsers, Jazz, Treemaps, Zoomable User Interfaces (ZUIs).

14 A negotiation architecture for fluid documents



 Bay-Wei Chang, Jock D. Mackinlay, Polle T. Zellweger, Takeo Igarashi
November 1998 Proceedings of the 11th annual ACM symposium on User interface software and technology

Publisher: ACM Press

Full text available:  pdf(108.05 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: fluid documents, fluid user interfaces, focus+context annotation, negotiation

architecture, scaling, zooming

15 Document Formatting Systems: Survey, Concepts, and Issues



Richard Furuta, Jeffrey Scofield, Alan Shaw

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: [pdf\(5.36 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Proximal nodes: a model to query document databases by content and structure



Gonzalo Navarro, Ricardo Baeza-Yates

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: [pdf\(550.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A model to query document databases by both their content and structure is presented. The goal is to obtain a query language that is expressive in practice while being efficiently implementable, features not present at the same time in previous work. The key ideas of the model are a set-oriented query language based on operations on nearby structure elements of one or more hierarchies, together with content and structural indexing and bottom-up evaluation. The model is evaluated in regard to ...

Keywords: expressivity and efficiency of query languages, hierarchical documents, structured text, text algebras

17 The table layout problem



Richard J. Anderson, Sumeet Sobti

June 1999 **Proceedings of the fifteenth annual symposium on Computational geometry**

Publisher: ACM Press

Full text available: [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 The impact of fluid documents on reading and browsing: an observational study



Polle T. Zellweger, Susan Harkness Regli, Jock D. Mackinlay, Bay-Wei Chang

April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Fluid Documents incorporate additional information into a page by adjusting typography using interactive animation. One application is to support hypertext browsing by providing glosses for link anchors. This paper describes an observational study of the impact of Fluid Documents on reading and browsing. The study involved six conditions that differ along several dimensions, including the degree of typographic adjustment and the distance glosses are placed from anchors. Six subjects read and ...

Keywords: eye tracking, fluid documents, fluid user interfaces, focus+context, hypertext navigation, on-line reading, studies of dynamic user interfaces

19 The perspective wall: detail and context smoothly integrated

Jock D. Mackinlay, George G. Robertson, Stuart K. Card

◆ March 1991 **Proceedings of the SIGCHI conference on Human factors in computing systems: Reaching through technology****Publisher:** ACM PressFull text available: pdf(920.47 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**20** Beyond location: hypertext workspaces and non-linear views

Frank M. Shipman, Catherine C. Marshall, Mark LeMere

◆ February 1999 **Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots****Publisher:** ACM PressFull text available: pdf(3.20 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** VIKI, analysis, fisheye views, information workspaces, interpretation, reduced document representations, visual languages, visualization

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1 Document Formatting Systems: Survey, Concepts, and Issues

Richard Furuta, Jeffrey Scofield, Alan Shaw

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(5.36 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



2 A system for interactive viewing of structured documents

Ian H. Witten, Bob Bramwell

March 1985 **Communications of the ACM**, Volume 28 Issue 3

Publisher: ACM Press

Full text available: pdf(1.00 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



An existing typesetting system is tied by bridging software to an existing page-presentation program to effect both hard (typeset) copy and interactive browsing. The typesetting system formats documents for a variety of output devices, and the "browsing" feature appears to the user as simply another output device that happens to be interactive.

3 Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(9.17 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



4 Making way for intelligence in case space

Philip Greenspun, Marc Lauritsen

May 1995 **Proceedings of the 5th international conference on Artificial intelligence and law**

Publisher: ACM Press

Full text available: pdf(676.11 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



5 Graphic update of automated logic diagrams

◆ Richard J. Uhlik

◆ July 1968 **Proceedings of the 5th annual workshop on Design automation****Publisher:** ACM PressFull text available: [pdf\(1.09 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Automated Logic Diagram, or ALD, is a well defined document prepared by engineers to specify the design of a machine. 1 The document is coded for computer input by highly trained transcription personnel. Changes or corrections are batched for a master file update computer run. Because of the number of queues involved, a day or more is normally required to complete this process. A project was undertaken to investigate the utility of a graphic display devic ...

6 Flatland: new dimensions in office whiteboards

◆ Elizabeth D. Mynatt, Takeo Igarashi, W. Keith Edwards, Anthony LaMarca

◆ May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit****Publisher:** ACM PressFull text available: [pdf\(1.11 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Flatland is an augmented whiteboard interface designed for informal office work. Our research investigates approaches to building an augmented whiteboard in the context of continuous, long term office use. In particular, we pursued three avenues of research based on input from user studies: techniques for the management of space on the board, the ability to flexibly apply behaviors to support varied application semantics, and mechanisms for managing history on the board. Unlike some p ...

Keywords: Flatland, light-weight interaction, pen-based computing, ubiquitous computing, whiteboards

7 Comparing two microcomputer operating systems: CP/M and HDOS

◆ Michael A. Pechura

◆ March 1983 **Communications of the ACM**, Volume 26 Issue 3**Publisher:** ACM PressFull text available: [pdf\(1.68 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Two moderate operating systems are compared, with the intent to demonstrate how each may satisfy the needs of a different set of users. The clear superiority of either systems does not emerge, but rather a difference in "design philosophy." A method for comparing other similar systems is demonstrated.

Keywords: CP/M, H = 89, HDOS, design, microcomputer, operating systems, personal computers

8 Writing applications for uniform operation on a mainframe or PC: a metric conversion◆ **program**

◆ Charles A. Schulz

◆ May 1990 **ACM SIGAPL APL Quote Quad , Conference proceedings on APL 90: for the future APL '90**, Volume 20 Issue 4**Publisher:** ACM PressFull text available: [pdf\(1.26 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

terms

The metric system of measurement is the primary standard in all countries except the USA and two others. Use of the metric system is becoming more important to the USA for trade and commerce in the world economy. A metric conversion program was developed to convert 350 measurement units between inch-pound (or USA customary) and metric systems for engineering design and documentation. The program follows the primary national metric standard with its conversion factors and special rules for a ...

9 A Utility For The Generation Of A Preliminary Data/Dictionary Directory

◆ Jon D. Clark

◆ December 1978 **Proceedings of the 1978 annual conference**

Publisher: ACM Press

Full text available: pdf(498.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

All Information Processing Systems (IPSs) consist of users, data, and algorithms. The algorithms draw upon the store of data to satisfy user requests. In order to process requests, however, a great deal of meta data, or data about data must be employed. The evolving technology of Data Base Management Systems (DBMSs) suggests that this meta data should reside in what is referred to as the Data Dictionary/Directory (DD/D). What is currently lacking both theoretically and in practice is a set ...

Keywords: Data base management systems, Data dictionary/directory, Initialization

10 The design and implementation of INGRES

◆ Michael Stonebraker, Gerald Held, Eugene Wong, Peter Kreps

◆ September 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 3

Publisher: ACM Press

Full text available: pdf(2.67 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The currently operational (March 1976) version of the INGRES database management system is described. This multiuser system gives a relational view of data, supports two high level nonprocedural data sublanguages, and runs as a collection of user processes on top of the UNIX operating system for Digital Equipment Corporation PDP 11/40, 11/45, and 11/70 computers. Emphasis is on the design decisions and tradeoffs related to (1) structuring the system into processes, (2) embedding one command ...

Keywords: concurrency, data integrity, data organization, data sublanguage, database optimization, nonprocedural language, protection, query decompositon, query language, relational database

11 Interactive computer graphics at Ford Motor Company

◆ Frank W. Bliss

◆ July 1980 **ACM SIGGRAPH Computer Graphics , Proceedings of the 7th annual conference on Computer graphics and interactive techniques SIGGRAPH '80**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(594.36 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Over the past fourteen years the Ford Motor Company actively pursued the development and use of interactive computer graphics in the design and manufacture of automobiles. The success of Ford's pioneering efforts in the area of minicomputer graphics led to widespread acceptance and support for graphics within the corporation. This in turn led to a rapid expansion of computer graphics equipment. The advent of numerous Federal regulations in the areas of fuel economy, emissions control, and s ...

Keywords: Automative design, CAD/CAM, Computer graphics, Mechanical design

12 SIGGRAPH'91 Workshop Report Integrating Computer Graphics, Computer Vision, and Image Processing in Scientific Applications



Ingrid Carlbom, Indranil Chakravarty, William M. Hsu

January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(1.28 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

13 Dynamic program behavior under paging



Gerald H. Fine, Calvin W. Jackson, Paul V. Mc Isaac

January 1966 **Proceedings of the 1966 21st national conference**

Publisher: ACM Press

Full text available: pdf(454.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In May, 1965, System Development Corporation (SDC) proposed to do some research to study program organization with respect to dynamic program behavior. Further, the proposal suggested that simulation techniques might be used to study the problem of resource allocation in a multiprocessor time-sharing system. Some of the reasons for the proposal related to the prospective utilization of the time-sharing hardware features of the GE and IBM time-sharing computers. At the time, there was consid ...

14 Development of a TCP/IP for the IBM/370



Robert K. Brandriff, Clifford A. Lynch, Mark H. Needleman

September 1985 **ACM SIGCOMM Computer Communication Review , Proceedings of the ninth symposium on Data communications SIGCOMM '85**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(868.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the design and implementation decisions that have been made in developing software to support the DARPA TCP/IP protocols for the IBM OS/370 environment at the University of California Division of Library Automation. The implementation is designed to support over 100 concurrent TCP connections, all of which are managed by a single program, which acts as a specialized sub-operating system. The system is optimized for line-by-line or screen-by-screen terminal traffic rathe ...

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